

ACCESSION NR: AT4032220

S/3089/63/000/005/0113/0120

AUTHOR: Potushanskiy, A. A.

TITLE: Geophysical investigation of boreholes with a depth greater than 3,200 m  
in the Ukraine

SOURCE: AN UkrSSR. Mezhdunodomstvennyy geofizicheskiy komitet. Geofizika i  
astronomiya; informatsionnyy byulleten', no. 5, 1963, 113-120

TOPIC TAGS: geophysics, borehole, high pressure, high temperature, geothermal  
gradient, geological exploration, geophysical exploration, geophysical instrument

ABSTRACT: This report deals with the deep boreholes which have been drilled in the  
Ukraine, the extent to which these boreholes have been studied by geophysical  
methods and the problems faced by geophysical exploration enterprises in making  
measurements under high-temperature and high-pressure conditions. Data are given  
on the geothermal gradient in various regions in the Ukraine and computed tempera-  
tures to a depth of 7,000 m. The petroleum- and gas-bearing areas of the Ukraine  
are regionalized on the basis of their geothermal characteristics. The short-  
comings of the currently used drilling techniques and drilling equipment are  
described. The geothermal regionalization shows three temperature gradients:

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2.6C/100 m or less, 2.6-3.5C/100 m and over 3.5/100 m; different types of equipment and instruments must be used under different geothermal conditions. At present, geophysical study of boreholes deeper than 3,000 m is relatively poor, whereas effective petroleum- and gas-exploration cannot be expected unless all available methods are efficiently exploited. The need for combining all available methods is stressed, a multicore armored logging cable should be used and geophysical instruments should be highly accurate and stable in operation. Study of boreholes up to 7,000 m in depth requires this and other new instruments and techniques and exploration geophysicists must depend on geophysical instrument plants to supply them with the required apparatus. Orig. art. has: 1 figure and 3 tables.

ASSOCIATION: Trest "Ukrgeofizrazvedka" (Ukrainian Geophysical Exploration Trust)

SUBMITTED: 00 DATE ACQ: 16Apr64 ENCL: 00  
SUB CODE: ES NO REF SOV: 004 OTHER: 000

Card 2/2

POTUTKIN, G.F.; SUKHAREVA, R.A.

Controlled drying of small wood waste. Der. prom. 14 no.12:  
(MIRA 18:12)  
27 D '65.

KRUTY, R.; LITOMERICKY, S.; POZDECHOVA, E.; HUDA KOVA, G.; BIZA, J.

Therapeutic physical training and therapeutic work for patients  
with pulmonary tuberculosis. Bratisl. lek listy 44 no.6:353-360  
'64.

1. Krajska tuberkulozna liecebna Nitra-Zobor (riaditel MUDr.  
R. Kruty), Ftizeologicka katedra SUDL v Pod. Biskupiciach  
(veduci MUDr. K. Virsik), Krajska nemocnica tbc a SHP v Pod.  
Biskupiciach (riaditel MUDr. K. Virsik, a Ustav zdrav. statistiky  
v Bratislave (riaditel prom. ekonom I. Estok).

POZENTSVEIG, V. Yu.

"Lingvisticheskiy podkhod k opisaniyu kul'turnykh kontaktov."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,  
Moscow, 3-10 Aug 64.

GANDZYUK, G.A.; POTUSHANSKIY, A.A.

Geothermal investigation and distribution of the thermal field  
in sedimentary deposits in Ukraine. Trudy Inst. geol. nauk AN  
URSR. Ser. geofiz. no.1:157-165 '56. (MLRA 10:8)  
(Ukraine--Rocks, Sedimentary)

POTUSHNYAK, M. V.

7775. POTUSHNYAK, M. V.---Zak Mash Kolkhoz Uluchshayet Inga I Rastkishcha.  
(Kolkhoz "za neve zhittyia" Irshav. Rayona). Uzhgorod, zakarpat. Obl.  
Kn.--zhurn. izd., 1954. 12 s. 20 sm. 5.000 Ekz. 10 K.--Na Ukr. Yaz.--  
(55-3275) 633.203 st (47.749)

SO: Knizhnaya letopis', Vol. 7, 1955

PITRA, Yu.Yu., Geroy Sotsialisticheskogo Truda; POTUSHNYAK, V.,  
spets. red.; PANCHENKO, V., red.; LUCHKIV, M., tekhn. red.

[Crop of great possibilities] Kul'tura velikykh mozhlyvostei.  
Uzhhorod, Zakarpats'ke oblasne knyzhkovo-gazetne vyd-vo, 1961.  
30 p. (MIHA 15:7)  
1. Kolkhoz "Za nove zhytтя," Irshavskogo rayona, Zakarpatskoy  
oblasti (for Pitra).  
(Ukraine--Corn (Maize))

SECRET

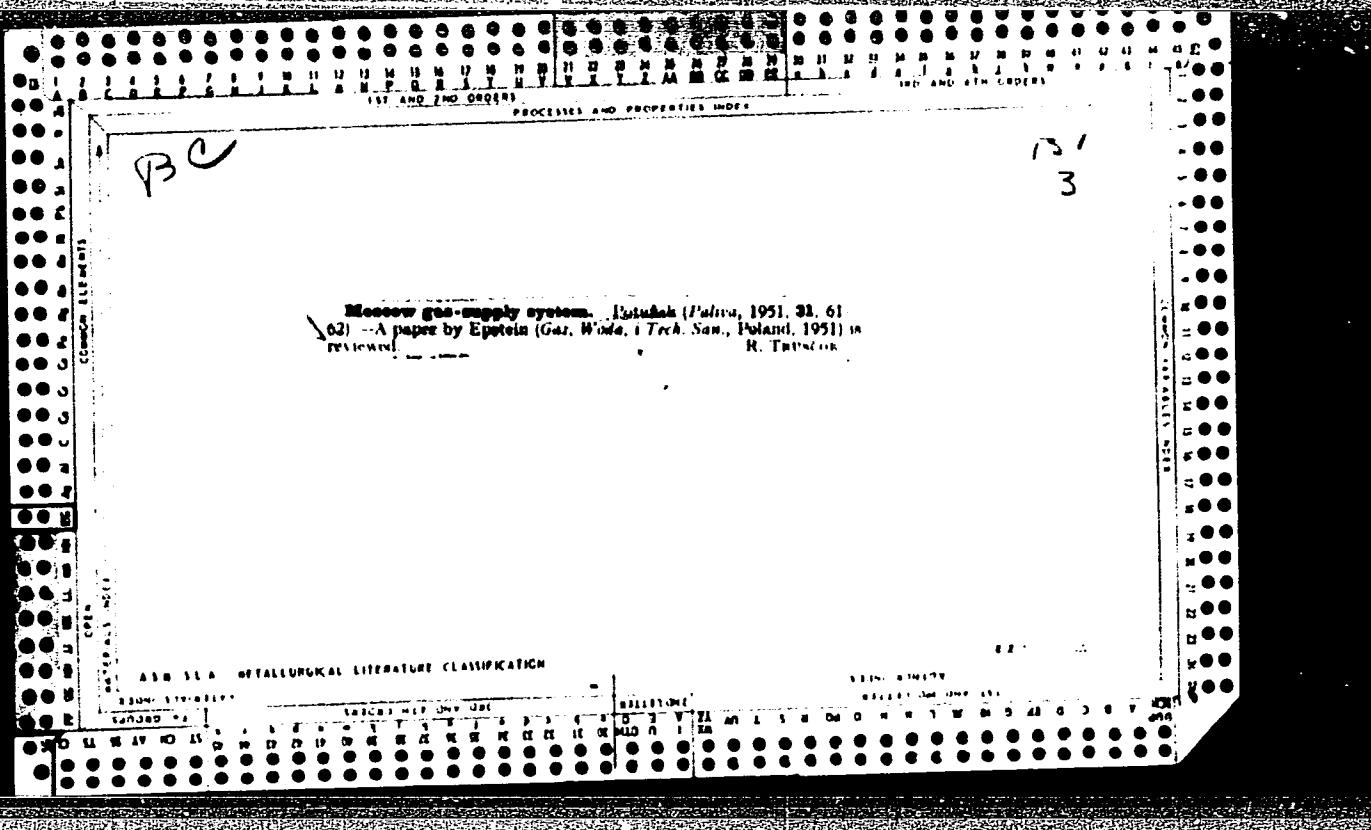
Congress of the Free Trade Unions of the German Democratic Republic. . . .  
Comrade Frantisek Kralicky, Secretary General of the Central Council, P. O.  
Emil Kvorak, Director of a State Mine, P. 107

cc: East European Acquisitions List, Vol. 1, No. 1, Sept. 1984, Lib. of Congress

POTURAY, G.I.

Result of using prolonged drainage of the lateral ventricles.  
Vop.neirokhir. 19 no.4:9-13 Jl-Ag '55. (MLRA 8:10)

1. Iz neyrokhirurgicheskoy kliniki Krymskogo meditsinskogo  
instituta imeni I.V.Stalina  
(DRAINAGE,  
cerebral ventric.,prolonged, results)  
(CEREBRAL VENTRICLES,  
drainage, prolonged results)



POTUZAK.

"Congress of the Gas Industry in the German Democratic Republic." p. 166, Vol. 34, no. 6, June 1954. "Comrade Frantisek Netolicky decorated with the Medal of Labor," p. 167, Praha, Vol. 34, no. 6, June 1954. Emanuel Dvorak, Winner of a State Prize, p. 167, Praha, Vol. 34, no. 6, June 1954. SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

Oncology

UDC 615.361.631-092.22:618.19

CZECHOSLOVAKIA

STARA, B.; STEREÁ, R.; POTUZAK, J.; Oncological Institute (Onkologický Ustav), Prague - Bulovka, Director (Reditel) Dr F. VADURA; Research Institute for Natural Drugs (Vyzkumný Ustav Prirodních Leciv), Prague, Director (Reditel) Docent Dr Z. ČEKAN.

"The Effect of 1-alpha,17-alpha-Dimethylandrostanolone in Mastopathies."

Prague, Casopis Lekaru Ceskych, Vol 105, No 24-25, 17 Jun 66, pp 671 - 677

Abstract /Authors' English summary modified/: A new Czechoslovak product dimethylandrostanalone (DMA) was administered to 41 patients for a period of 203 cycles during 2½ years and compared to the drug methandrostenolone (MA) distributed under the name of Stenolon. In oncological prevention of mastopathies, and for protection of the sound mammary gland after unilateral mastectomy DMA nad MA are equal to each other. No signs of conversion of DMA to estrogens were found. 3 Figures, 6 Tables, 18 western, 1 Czech, 1 East German reference. (Manuscript received Jun 65).

1/1

POTUZAK, K., dr. inż.

Towards further development of the Czechoslovak long-distance gas pipe system. Paliva 43 no.10:227 1963.

POTUZAK, K.

Some problems of gasification. p. 231.

PALIVA. (Ministerstvo paliv a Ceskoslovenska vedecka technicka spolecnost pro  
vyuziti paliv pri Ceskoslovenske akademii ved) Praha, Czechoslovakia, Vol. 39,  
no. 7, July 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 11,  
November 1959.

uncl.

POTUZAK, K. - Vol. 4, no. 3, Mar. 1954. ZA SOCIALISTICKOU VEDU A TECHNIKU

The great contribution of I. V. Stalin to socialist technology. p. 97.  
Utilization of fuel gases in Czechoslovakia. p. 101.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955  
Uncl.

PCP(CIA)

POTUZAK, I., doc. dr. inze.

Remarks on a design of the all-state gas distribution network.  
Prague 44 no. 8:243-246 Aug 1964.

I. Vysočoprostřed, Prague.

POTUZAK, K., doc. ing. dr.

Solution of long-distance natural gas ducts. Paliva 44 no. 11:329-333,  
334 N '64.

1. Plynoprojekt, Prague.

TOTUZIK, K.

The gas industry in the USSR, p. 285. Vol. 34, no. 11,  
Nov. 1954. PALIVA. Praha.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956.

POTUZAK, K.

"Czechoslovak Gas Industry, Its Development up to the Present, and Its Further Tasks."  
p. 138, Praha, Vol. 34, no. 6, June 1954.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

POTUZAK, K.

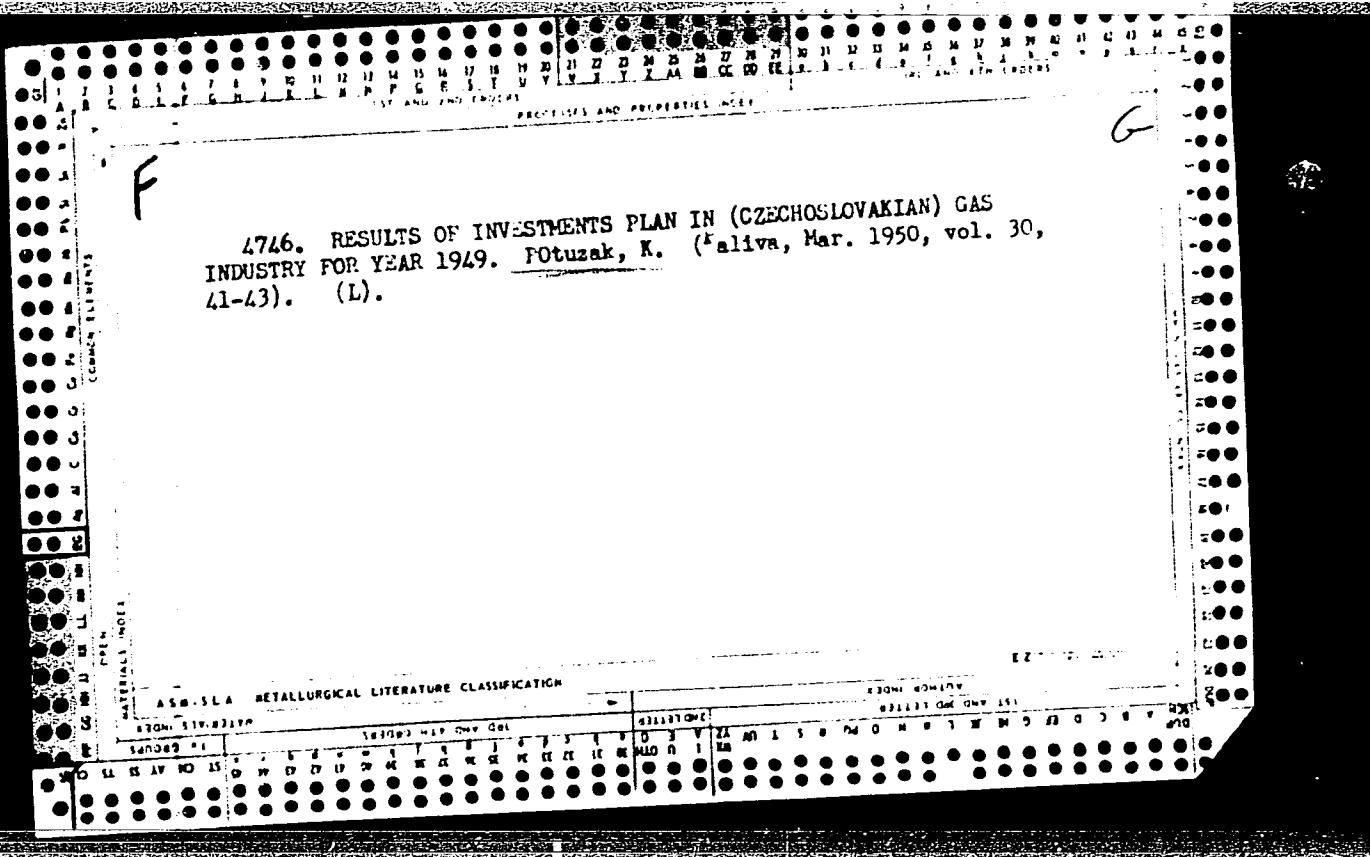
New methods for laying long-distance gas pipelines across rivers. p. 8.  
(PALIVA., Vol. 33, no. 1, Jan. 1953, Czechoslovakia)

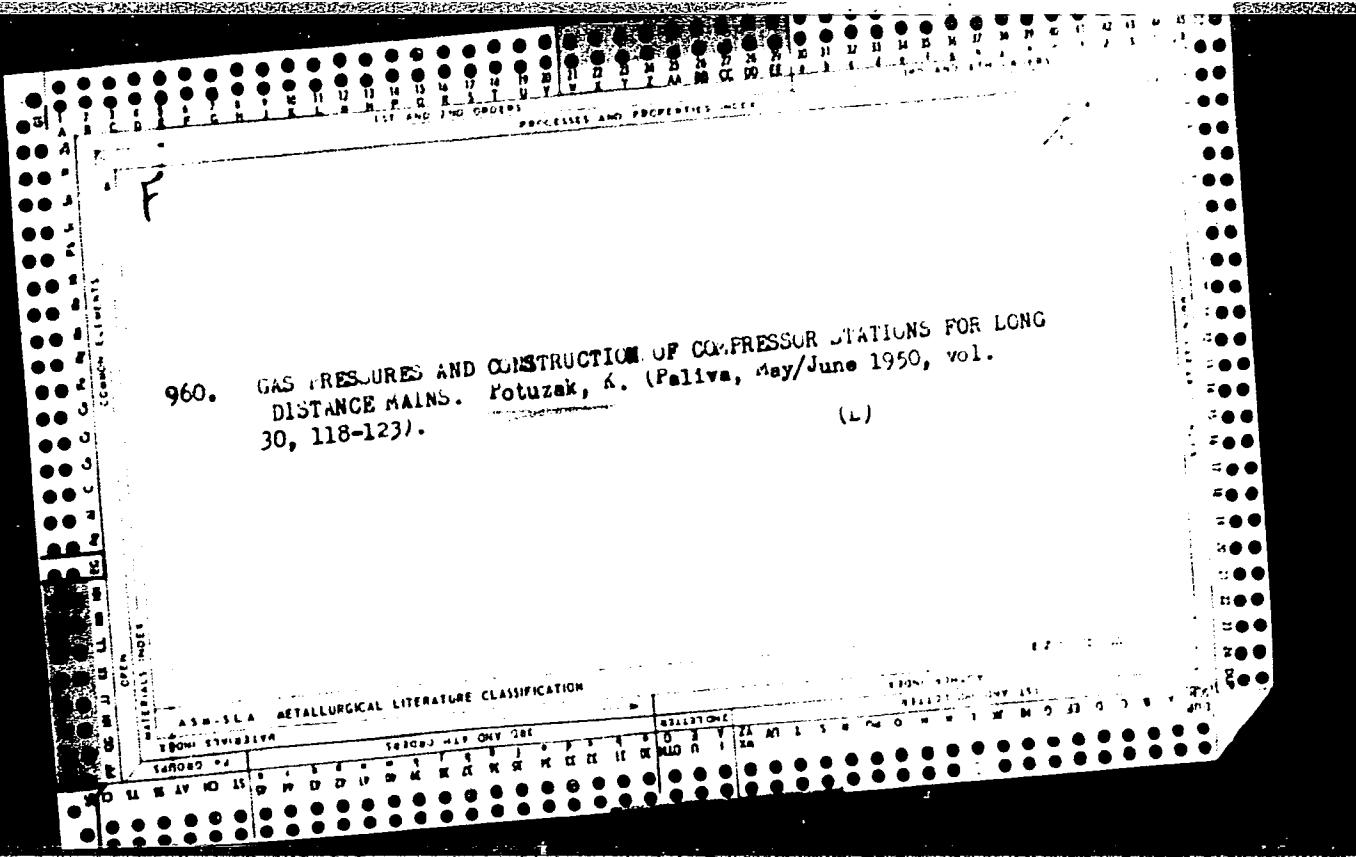
SO: Monthly List of East European Accession, Vol. 2 #8, Library of Congress,  
August 1953, Uncl.

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CONT. PLAN OF INVESTIGATION IN CZECHOSLOVAKIA, 1945-1948  
C. P. RUMYANTSEV, K. (USSR) (red.), Apr. 1961, vol. 31, pp. 1-14  
etc., in GAZETTA, 16 Feb. 1962, vol. 135, 1960. The reconstruction of  
industry, in Czechoslovakia, in Feb. 1945, vol. 135, 1960. The reconstruction  
of industry, particularly of steel works, at the "Jednota" plant  
was being built from abroad (in Germany) to Blatná-Běchovice and to be  
joined together for lack of materials. A third plant was planned  
for construction, M. was for agricultural plant, but for lack of materials  
it was for local needs and not for holders. About 60% of the  
revised plan was carried through. (L).

3936. PROBLEMS IN LONG DISTANCE GAS PIPING SYSTEMS. Potusak, I.  
(Paliva a Voda, May-June 1949, vol. 29, 159-163). The author gives a brief account of the conditions existing in Czechoslovakia for constructing a long distance gas piping system. Compression and pipe costs and economic pipe size are dealt with and the advantages of various gas holders in relation to initial and maintenance costs are compared. Length of piping and peak loads are also mentioned. (L).





But also

27-2 added v gas fuels

Transmission pressures, and the provision of compressor stations  
for long-distance (gas) pipe-lines. K. Trusov (Paris, 1950, 30.  
118-123).—In the planning of long-distance pipe-lines provision  
can be made for variations in consumption by construction of reserve  
gasholders, of auxiliary compressor stations, and by laying of  
parallel lines supplying areas where variable demand is expected,  
as well as by raising the working pressure in the mains at peak  
periods. Examples of the calculation of the effect given by each of  
the above factors are given.  
R. Trusov.

Bv. abs.

B1-2, Sabid and Thoen  
Fuchs

**Planning of long-distance gas pipe-line systems.**  
(*Polska i Wszechświat*, 1947, 39, 15, p. 101).

**Planning of long-distance gas pipe-line systems.** K. Poturak  
(*Polska i Wszechświat*, 1949, 39, 159—163).—The economic aspects of the  
subject are reviewed.  
R. Tauszow

2317. LOGARITHMIC RULER FOR CALCULATION OF LONG DISTANCE PIPE LINES.  
Potuzak, K. (Paliva a Voda, Apr. 1949, vol. 29, 95-97). The author  
describes briefly the various calculations required in connection  
with long distance piping and discusses in detail the arithmetical  
assumptions underlying the construction of a special ruler. The  
scale is based on the Weymouth-Fowl equation and a system is  
suggested. To show the relative accuracy of results as estimated  
by means of the ruler in comparison with those obtained by exact  
calculation the author gives two examples relating to gas from  
the Stalin works and from coke-ovens and finds the discrepancy to  
be around 1%. (L).

POTUZAK, Miloslav

Four-finger probe for air flow measurement. Stroj cas 14 no.2:189-  
195 '63.

Z/041/63/000/002/005/005  
E160/E135

AUTHOR: Potužák, Miloslav

TITLE: Four-limb pressure probe for three-dimensional flow investigations

PERIODICAL: Strojnický časopis, no. 2, 1963, 189-195

TEXT: Whilst functionally equivalent to other types of probes suitable for three-dimensional flow investigations, the four-limb pressure probe is easy to manufacture and can therefore be made even in establishments with limited facilities or experience. The theoretical analysis consists of writing four equations, giving the measured pressures in the four limbs, and involving four unknowns; static and velocity heads and two angles defining the flow velocity vector with respect to the system of three chosen axes. A type designed to facilitate the rapid taking of readings has two limbs in the plane  $x - y$ , and the other two in the plane  $y - z$ , perpendicular to it. The probe can be rotated around the  $z$ -axis until the pressures in the two limbs, which are in the  $x - y$  plane, are equal; thus one of the angles is found. Three coefficients, which are obtained by calibration of each individual instrument

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Four-limb pressure probe for ...

Z/041/63/000/002/005/005  
E160/E135

and are all dependent on the second angle only, are: the coefficient characterizing the direction of the flow vector and the coefficients of the dynamic pressures. The values of the last two, when put into the appropriate equations, give the values of the dynamic and static heads. Calibration curves for two variants of the design of the probe, successfully used in practice, are given as an example. The design of the rotating head of the instrument is also shown. There are 8 figures.

Card 2/2

TRDLICKA, Zdenek, promovany geolog; POTUZAK, Vladimir, inz.

Laboratory dressing of the ore from the Fichtenthal deposit  
in Slovakia. Rudy 10 no.10:347-350 0 '62.

1. Ustav nerostnych surovin, Kutna Hora.

POTUZAK, Vladimir, inz.; CHOUJ, Zdenek, inz.

Feldspar winning from granitic rocks. Sklar a keramik 14 no.11:  
314-315 N '64.

1. Institute of Mineral Raw Materials, Kutna Hora.

POTUZNIK, V.; STEJSKALOVA, M.; SUCHANEK, M.; DUBEN, J.; TARABCAK, M.

Current status, problems and perspectives of microbiology in  
regional and district hygiene and epidemiology stations. Cesk.  
epidem. 12 no.4:193-198 Jl '63.

1. KHES v Ceskych Budejovicich, HES-NV v Praze, KHES v Ostrave,  
OHES v Havlickove Brode a KHES v Kosicich.  
(MICROBIOLOGY) (IMMUNOLOGY) (SEROLOGY)  
(VIROLOGY)

POTUZNIK, V.; PIPAL, S.; HEJLEK, J.; TRISKA, L.

Growth of bacteria in ion-treated human and rabbit blood.  
Cesk. epidem. 12 no. 5:282-286 S '63.

1. Mikrobiologicke oddeleni KHEs a krajska kontrolni laborator  
KUNZ v C. Budejovicich.

(CULTURE MEDIA) (BLOOD) (BACTERIA)  
(STAPHYLOCOCCUS) (STREPTOCOCCUS)  
(DIPLOCOCUS PNEUMONIAE) (ESCHERICHIA COLI)  
(SALMONELLA TYPHOSA) (SALMONELLA TYPHIMURIUM)  
(PSEUDOMONAS AERUGINOSA) (IONS) (HYDROGEN)  
(MAGNESIUM) (CITRATES)

VYMOLA, F.; HEJZLAR, M.; ZAHRADNICKY, J.; POTUZNIK, V.

Determination of the sensitivity of microbes to antibiotics  
by the disk method. Cesk. epidem. 12 no.5:290-303 S '63.

I. Ustav epidemiologie a mikrobiologie v Praze - Vojensky  
ustav hygieny, epidemiologie a mikrobiologie v Praze - Ustav  
mikrobiologie a epidemiologie lekarske fakulty KU v Plzni -  
Krajska hygienicko-epidemiologicka stanice v C. Budejovicich.  
(DRUG RESISTANCE, MICROBIAL) (ANTIBIOTICS)

FALTYNEK, Lubomir; POTUZNIK, Vaclav

An anesthesia supplement to the Prema bronchoscope. Cesk. otolar.  
10 no.6:370-371 D '61.

1. Otolaryngologicka klinika lekarske fakulty KU v Hradci Kralove,  
prednosta prof. MUDr. Jan Hybasek.

(BRONCHOSCOPY equip & supplies)

ZAHRADNICKY, J.; VYMOLA F.; HEJZLAR, M.; POTUZNIK, V.; KUBALA, E.;  
HEJNY, J.

Current status of the sensitivity of some pathogenic agents in  
Czechoslovakia. Cas. lek. cesk. 104 no.23:609-614 11 Je'65.

1. Ustav pro mikrobiologie a epidemiologii lekarske fakulty  
Karlovych University v Plzni; Ustav epidemiologie a mikrobiologie  
v Praze; Vojensky ustav hygiény, epidemiologie a mikrobiologie  
v Praze; Krajska hygienicko-epidemiologicka stanice v Českych  
Budejovicích; Lecetna tuberkulozy v Janově u Mirosova; a Lecetna  
tuberkulozy ve Vysnych Hragach.

VENCLIK, Hynek; POTUZNIK, Vladislav

Significance of testing of bacterial sensitivity of various sulfonamides in otitis. Cesk. otolar. 9 no.1:30-32 7 '60.

1. Otolaryngologicke oddeleni nemocnice, KUNZ - Ceske Budejovice,  
prednosta MUDr. H. Venclik; Mikrobiologicke oddeleni nemocnice,  
KUNZ - Ceske Budejovice, prednosta MUDr. V. Potuznik.  
(OTITIS MEDIA etiol.)  
(SULFONAMIDES pharmacol.)

VENCLIK, H.; POTUZNÍK, V.

Quantitative determination of the antibiotic sensitivity of  
bacterial flora in otitis. Cesk. otolaryng. 13 no.6:318-322  
N° 64.

1. Otolaryngologické oddelení Krajské nemocnice s poliklinikou  
v Českých Budějovicích (prednosta MUDr. H. Venclík, CSc.) a  
Mikrobiologické oddelení Krajské hygienicko-epidemiologické  
stanice Jihočeského kraje v Českých Budějovicích (vedoucí doc.  
dr. Potuzník, CSc.).

POTUZIL, Frantisek, dr.

Smoking on worksites. Pcd org 17 no.4:185-186 Ap '63.

L 15730-66 EWT(m)/T/EWP(t)/EWP(b) IJP(c) JD/JG

ACC NR: AP6000890

SOURCE CODE: UR/0181/65/007/012/3685/3685

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B

AUTHORS: Antipin, A. A.; Kurkin, I. N.; Potvorova, L. Z.

ORG: Kazan' State University im. V. I. Ul'yanov-Lenin (Kazanskiy gosudarstvenny universitet)

TITLE: Observation of paramagnetic resonance of  $Dy^{3+}$  ions in single crystal  $CaWO_4$

SOURCE: Fizika tverdogo tela, v. 7, no. 12, 1965, 3685

TOPIC TAGS: dysprosium, line broadening, epr spectrum, Stark effect, paramagnetic ion, single crystal

ABSTRACT: The authors observe paramagnetic resonance of  $Dy^{3+}$  in a single crystal  $CaWO_4$  grown by the Czochralski method and containing nominally one per cent of Dy. At  $\sim 3$  Gc and 4.2K, the EPR spectrum contains predominantly of one broad intense line, accompanied by the hyperfine structure of  $Dy^{161}$  and  $Dy^{163}$ . Its intensity increases when

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SOV/137-59-5-10580

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, p 158 (USSR)

AUTHORS: Nekhotyashchiy, Ye., Potyagaylo, Yu.

TITLE: Cold Welding of Cast Iron With Austenite-Copper Electrodes

PERIODICAL: Byul. tekhn.-ekon. inform. Sovnarkhoz Orlovsk. ekon. adm. r-na, 1957, Nr 1, pp 17 - 21

ABSTRACT: At the Orel Textile Machine Building Plant "Tekmash" a method was introduced to repair casting defects in cast iron by cold welding with austenite-copper electrodes (AME). These electrodes were manufactured of stainless Cr-Ni steel and were subjected to copper plating with subsequent coating. Using this method it is possible to weld up defects on cast iron ingots of the following grades: SCh 12 - 28, SCh 18 - 36, SCh 21 - 40, SCh 28 - 48, and SCh 33 - 52. The author describes the technological process of manufacturing austenite-copper electrodes and how to weld up defects with the use of these electrodes. The use of austenite-copper electrodes in cold welding of cast iron preserves the structure of the cast iron located in the zone adjacent. ✓ B

Card 1/2

S/081/62/000/024/022/052  
B117/B186

AUTHOR: Potyl'chanskiy, L. S.

TITLE: Application of polyester resins for the production of medical preparations

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24 (II), 1962, 850,  
abstract 24P266 (Tr. Leningr. san.-gigiyen. med. in-ta,  
1961, 73, 66)

TEXT: The advantages of polyester maleinate and polyester acrylate resins are described: high mechanical, chemical and corrosion resistance, low shrinkage and absence of diffusion into the neighboring tissue. They may be used as injection mass in the production of corrosion preparations for instructional and surgical use in the osteosynthesis of tubular bones, in the filling of bone defects, in the making of prostheses, etc.  
[Abstracter's note: Complete translation.]

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POTUZAK, K.

Tasks of technical development in gas distribution. p. 83

PALIVA. (Ministerstvo paliv a Ceskoslovenska vedecka technicka spolecnost pro vyuuziti pri Ceskoslovenske akademi ved) Praha, Czechoslovakia.  
Vol. 39, no. 3, Mar. 1959

Monthly List of East European Accessions (FEAI), LV, Vol. 8, no. 7, July 1959  
Uncl.

"Danji registrirani in tem potrebnim vrednostim."

n. 230. Ustrojnice riva poselje s portofotografie. (Praga, JAROMÍŘSKÝ)  
Vol. 3, no. 11, Dec. 1951.

30: Monthly Index of Most Important Accorssian (and) LC, 12. 1, 19. 1, 1951

三

Investigation on earth connections in poorly conducting soils. VAINER, A. L., PUTEZHNIK, A. K., and FERGUSON, S. M. Elektricheskoe (No. 2) 40-7 (1947) [in Russian].

Novel methods of measuring current time and VA characteristics of pulses to earth by means of special multibeam oscilloscopes are described. Tubular, ring and extended steel wire earthing connectors are treated, and their "pulse coefficients" plotted against several variables (soil conductivity, earthing current density, etc.). Multi-electrode earthing systems are also discussed, and improved earthing arrangements for general cases are indicated.

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ASME SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013427

POTUZNIK, V.; SVEJNOCH, V.; DUNIEWICZ, M.

Surface fixation test in brucellosis. Cesk. epidem. 13 nc.4:  
209-212 J1 '64.

1. Mikrobiologicke oddeleni Krajskej hygienicko-epidemiologickej  
stanicy, Ceske Budejovice, Infekcni klinika, Praha 8 - Bilevka.

VENCLIK, H.; POTUZNIK,V.; Opekar, B.

Microclimatic conditions, dust and bacterial contamination of  
an ORL department. Cesk. otolaryng. 13 no.3:136-143 Je'64

1. Otolaryngologicke oddeleni Krajske nemocnice s poliklinikou  
v Ceskych Budejovicich (vedouci: MUDr. H.Venclik, CSc.) a  
Mikrobiologicke oddeleni (vedouci: MUDr. V.Potuznik, CSc.)  
chemicke oddeleni (vedouci: inz. M.Kalina) Kraj. hygienicko-epi-  
demiologicke stanice v Ceskych Budejovicich.

VANEK, J.; LUKES, J.; POTUZNIK, V.; POLEDNIKOVA, I.; VILIM, V.

Myocarditis and encephalitis in newborn infants, caused by coxsackie B virus. J. Hyg. Epidem., Praha 3 no.3:283-291 1959

I. Sikl's Department of Pathology and Children's Clinic of the Medical Faculty, Charles University, Plzen, Department of Virology of the Regional Hygiene and Epidemiology Station, Ceske Budejovice, Anti-epidemic Department of the Regional Hygiene and Epidemiology Station, Plzen.

(MYOCARDITIS, in inf. & child)  
(ENCEPHALITIS, in inf. & child)  
(INFANT NEWBORN, dis)  
(COXSACKIE VIRUSES, infect)

POTUZNIK, Vaclav

Direct injury of the tympanum, middle ear and labyrinth with a leaf of grass. Cesk. otolar. 9 no. 4:240-243 Ag '60.

1. ORL klinika KU, Hradec Kralove, prednosta prof. MUDr. J. Hybasek.  
(EAR MIDDLE wds. & inj.)  
(LABYRINTH wds. & inj.)

EXCERPTA MEDICA Sec 4 Vol 12/5 Med. Micro. May 59

1300. HAEMAGGLUTINATION REACTION IN SERA OF PATIENTS WITH SONNE DYSENTERY - Hemaglutinační reakce v sérech nemocných dysenterií typu Sonne - Potužinský V., Kott B. and Havlík J. Krajská Hyg. - Epidemiol. Stanice, České Budějovice - ČSL. EPIDEM. 1958, 7/3 (193-196) Tables 1

A haemagglutination test with sera of Sonne dysentery patients is described. Examinations of 307 sera of 141 proved cases showed sufficient specificity for diagnostic purposes.

*Po Tužník V.*  
EXCERPTA MEDICA Sec.13 Vol.4/5 Pub. Health, Etc. May 58

1514. ISOLATION OF SALMONELLA NCHANGA IN CZECHOSLOVAKIA - Isolace  
Salmonelly nchanga v Československu - *Potužník V.*, Milit. Hosp. České  
Budějovice - VOJ. ZDRAVOTN. LISTY 1957, 26/2 (57-58)

In the spring of 1956 the author isolated in Czechoslovakia a serotype of S. nchanga  
/3, 10, q6, 1v, 1, 2 not yet identified from 22 persons who, 20 hr. after con-  
sumption of salad and mayonnaise showed symptoms of intestinal infection. It is  
suggested that hen's eggs used in preparing the mayonnaise were the cause of the  
infection. At the same time in the same town the strain was cultured from 2 hens  
and a young pig.  
Havlík - Prague (L, 4, 17)

VENCLIK, Hynek; POTUZNIK, Vladislav

Results of daily examination for the carriage of pathogenic  
staphylococci. Cesk. otolar. 8 no.5:309-312 0 '59.

1. Otolaryngologicke oddeleni KUNZ v C. Budejovicich, prednosta  
dr. H. Venclik. Mikrobiologicke oddeleni KUNZ v C. Budejovicich,  
prednosta dr. V. Potuznik.  
(STAPHYLOCOCCAL INFECTION prev.& control)  
(HOSPITALS)

POTUZHNIK, Vlndislav [Potuznik, V.]

Isolation of complete and incomplete O(9,12) and Vi antibodies in sera from active and convalescent cases of typhoid fever. Zhur. mikrobiol. epid. i immun. 29 no.12:78-82 D '58. (MIRA 12:1)

1. Iz rayonnoy sanitarno-epidemiologicheskoy stantsii v g. Cheshake Budeyovitse i infektsionnoy kliniki Gigiyenicheskogo meditsinskogo fakul'teta v Prague.

(TYPHOID FEVER, immunol.

complete & incomplete O(9, 12) & Vi antibodies in active & convalescent cases (Rus))

POTUZNÍK, V.

On the CZ scooter to two seas.

P. 21 (Ceskoslovensky Vojak) Vol. 6, No. 19, Sept. 1957, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. - VOL. 7, NO. 1, JAN. 1958

POTUZNIK, Vladislav; KOTT, Bohuslav; HAVLIK, Jiri

Hemagglutination reaction with sera from patients with Sonne's dysentery.  
Cesk. epidem. mikrob. immun. 7 no.3:193-196 May 58.

1. Krajska hygienicko-epidemiologicka stanice v Ceskych Budejovicich  
Infekcni klinika Lekarske fakulty hygienicke v Praze 8 - Bulovka.

(HEMAGGLUTINATION, in var. dis.  
dysentery, bacillary (Cz))  
(DYSENTERY, BACILLARY, immuno.  
hemagglut. reaction (Cz))

POTUZNIK, VLADISLAV

Czechoslovakia /Microbiology. Medical and Veterinary. F-6

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35655

Author : Marsa, Jiri; Potuznik, Vladislav

Title : Diseases Caused by Salmonellosis Bareilly

Orig Pub: Vnitri lekarstvi, 1956, 2, No. 6, 534-537

Abstract: Described are the clinic, therapy, epidemiology, and data from the laboratory research on 20 sick persons from whom S.bareilly was isolated. Noted are the variations of the clinical forms of this disease (from without symptoms to fatal) and the varying effectiveness of chemical and antibiotic therapy. In experiments in vitro, there was noted a much greater sensitivity of the isolated strains of S.bareilly to chloramphenicol and terramycin, less to streptomycin and an absence of sensitivity to sulfonamides (sulfaguanidine and phtalozol).

Card 1/2

POTUZNIK, Vladislav; HAVLIK, Jiri

Incomplete antibodies in typhoid fever. II. Vi agglutination. Cesk.  
epidem. mikrob. imun. 6 no.5:322-324 Sept 57.

l. Mikrobiologicke odd. KHM v C. Budejovicich, reditel Dr. K. Lavicky  
Infekcni klinika lek fak hyg., Praha 8-Bulovka, prednosta doc. Dr.  
V. Kredba.

(TYPHOID FEVER, immunology,  
Vi agglutinins (Cz))

POTUZNIK, Vladislav; HAVLIK, Jiri

Method for the demonstration of O antibodies (9.12) in patients with typhoid fever. Cesk. epidem. mikrob. imun. 7 no.1:36-39 Jan 58.

1. Mikrobiologicke oddeleni ~~KHM~~ Ceske Budejovice, reditel Dr K. Lavicky a infekeni klinika LFH, Praha 8-Bulovka, prednosta doc. Dr V. Kredba.  
V. P., Ceske Budejovice, Otakarova 1090.

(TYPHOID FEVER, immunol.

O antibodies, determ. (Cz))

POTUZNIK, V.

"Through the Balkans on a Cezeta motor scooter."

p. 43 (Svet Motoru) Vol. 12, no. 2, Jan. 1958  
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEA) LC. Vol. 7, no. 4,  
April 1958

VENCLIK, H.; POTUZNIK, Vl.; STARY, J.

Itiology and treatment of acute middle ear inflammations in children in a period of resistant pathogenic flora. Cesk. otolar. 6 no.2:80-88 Apr 57.

1. Otolaryngologicke oddeleni KUNZ-nemocnice C. Budejovice, prednosta MUDr H. Venclik Bakteriologicka laborator 4. okruh. nemocnice C. Budejovice, prednosta MUDr Vl. Potuznik.

(OTITIS MEDIA, in inf. & child incidence of penicillin-resist. Micrococcus pyogenes in infect. (Cz))

(MICROCOCCAL INFECTIONS  
otitis media in child. by penicillin-resist. strains (Cz))

VENCLIK, Hynek; POTUZNIK, Vladislav

Experimental manifestation of the transmission of pathogenic staphylococci in otitis. Cesk.otolar. 8 no.6:366-369 D '59.

1. Otolaryngologicke oddeleni, prednosta MUDr. H. Venclik, a mikrobiologicka laborator, prednosta MUDr. Vl. Potuznik, KUNZ Ceske Budejovice.

(OTITIS MEDIA exper.)  
(STAPHYLOCOCCAL INFECTIONS exper.)

HAVLIK, Jiri; POTUZNIK, Vlad.

Dynamics of the titre of complete and incomplete O-(9, 12) antibodies during abdominal typhoid fever treated with chloramphenicol. Cas. lek. cesk. 96 no.16:482-489 19 Apr 57.

l. Inf. klin. LFH, Praha 8 - Bulovka, prednosta doc. Dr. V. Kredba, Vojenska nemocnice v Ceskych Budejovicich. J. H., Praha-Bulovka, interni klinika.

(TYPHOID FEVER, immunol.

complete & incomplete O-(9, 12) antibody titre in chloramphenicol ther. (Cz))

(CHLORAMPHENICOL, ther. use

typhoid fever, eff. on complete & incomplete O-(9, 12) antibody titre (Cz))

HAVLIK, Jiri; POTUZNIK, Vladislav

Incomplete antibodies in abdominal typhus. I. O-agglutination.  
Cas. lek. cesk. 95 no.43:1196-1198 26 Oct 56.

1. Infekcni klinika lek. fak. hyg. v Praze 8 Bulovka, predn. doc.  
Dr. V. Kredba. -- Vojenska nemocnice v Ceskych Budejovicich.  
(TYPHOID FEVER, diag.  
serodiag., determ. of incomplete antibodies (Cz))

L 51968-65 EWT(1)/EWT(m)/EPF(c)/EEC(t)/EWP(t)/EWP(b) PI-4 IJP(c)

JD/WW/JG/GG

ACCESSION NR: AP5012586

UR/0181/65/007/005/1575/1577

AUTHOR: Antipin, A. A.; Kurkin, I. N.; Livanova, L. D.; Petvorova, L. S.; Shekun, L. Ya.

35  
34  
B

TITLE: Paramagnetic resonance of trivalent samarium in single-crystal CaF<sub>2</sub>

SOURCE: Fizika tverdogo tela, v. 7, no. 5, 1965, 1575-1577

TOPIC TAGS: paramagnetic resonance, trivalent samarium, electron paramagnetic resonance, paramagnetic center, g factor, hyperfine structure

ABSTRACT: In view of the fact that the EPR spectrum observed in samples of CaF<sub>2</sub>:Sm prepared in the authors' laboratory differ greatly from that observed by others, a thorough study was made of these spectra. The samples were grown by the Bridgman method in an induction furnace using a graphite crucible. One sample was grown in a reducing medium and the other in an oxidizing medium. The spectra of both samples were the same, differing only in intensity. The angular dependence of the spectra corresponded to a tetragonal symmetry of the centers. A pronounced hyperfine structure was observed at wavelength ~ 3 cm. The values obtained for the parallel and perpendicular g-factors were  $0.00 \pm 0.06$  and  $0.823 \pm 0.003$ , re-

Card 1/2

L 51958-65  
ACCESSION NR: AP5012586

spectively. These values, as well as the calculated values of the resonant field for Sm<sup>3+</sup> at 9293 Mc, are in excellent agreement with the theoretical calculations. The results leave no doubt that tetragonal centers of Sm<sup>3+</sup> can be produced in the system CaF<sub>2</sub>:Sm and that their magnetic properties differ strongly from those obtained by Weber and Bierig (Phys. Rev. v. 134A, 1492, 1964) and by Low (Phys. Rev. v. 134A, 1479, 1964), whose results call for additional investigations. Orig. art. has: 1 figure, 2 formulas, and 1 table. [02]

ASSOCIATION: Kazanskiy gosudarstvennyy universitet im. V. I. Ul'yanova-Lenina  
(Kazan' State University)

SUBMITTED: 25Dec64

ENCL: 00

SUB CODE: SS, NP

NO REF SOV: 002

OTHER: 008

ATD PRESS: 4009

me  
Card 2/2

L 9579-66 EWT(1)/EWP(e)/EWT(m)/ETC/EWG(m)/EWP(+)/EWP(b) TIP(c) RDW/JD/WL/  
ACC NR: AP5027395 GG/WH SOURCE CODE: UR/0181/65/007/011/3209/3212

AUTHOR: Antipin, A. A. <sup>44, 55</sup> Kurkin, I. N. <sup>44, 55</sup> Potvorova, L. Z. <sup>44, 55</sup> Shekun, L. Ya. <sup>44, 55</sup> 70

ORG: Kazan' State University im. V. I. Ul'yanov-lenin (Kazanskiy gosudarstvennyy universitet) B

TITLE: Investigation of tetragonal centers of trivalent samarium ions in rutile single crystal by means of EPR 27

SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3209-3212

TOPIC TAGS: single crystal, crystal property, samarium, EPR spectrum, EPR spectrometry, rutile

ABSTRACT: The authors observed the electron paramagnetic resonance of <sup>21, 44, 55</sup> ions of  $\text{Sm}^{3+}$  ( $4f^5, 6H_{5/2}$ ) in  $\text{CaWO}_4$  single crystals. The samples were grown by the Czochralski method for a melt containing 0.5% Sm and a corresponding amount of  $\text{Na}_2\text{WO}_4$  (to compensate for the excess charge). All the  $\text{Sm}^{3+}$  ions were magnetic-equivalent. A study of the EPR spectrum of the  $\text{CaWO}_4:\text{Sm:Nd}$  specimen indicates that the major axes of the magnetic centers of  $\text{Sm}^{3+}$  and  $\text{Nd}^{3+}$  coincide, which leads to the conclusion that both centers are identical in nature. The results are discussed from the theoretical viewpoint. "In conclusion the authors express sincere gratitude to A. M. Morozov for the preparation of the  $\text{CaWO}_4$  single crystals with samarium." Orig. art. has: 1 figure and 5 formulas. [08]

SUB CODE: 20 / SUBM DATE: 29Apr65 / ORIG REF: 001 / OTHER REF: 003 /  
ATD PRESS: Card 1/1 4130 (bch)

ANTIPTIN, A.A.; KURPIN, I.N.; LIVANOVA, L.D.; OVTCHINNIKOV, I.Z.; SHKUN, L.Ya.

Paramagnetic resonance of trivalent cerium in  $\text{CaF}_2$  single crystals.  
Fiz. tver. tela 7 no.5:1575-1577 My '65.

(MIRA 18:5)

I. Kazanskiy gosudarstvennyy universitet imeni Ul'yanova-Lenina.

ACC NR: AP6018741

SOURCE CODE: UR/0057/66/036/006/1118/1120

AUTHOR: Antipin, A.A.; Kurkin, I.N.; Livanova, L.D.; Potverova, L.Z.; Shekun, L.Ya.

ORG: Kazan' State University im. V.I.Ulyanov-Lenin (Kazanskiy gosudarstvennyy universitet)

TITLE: EPR in calcium, strontium, and barium fluoride crystals containing samarium

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 6, 1966, 1118-1120

TOPIC TAGS: EPR, calcium, strontium, barium, samarium, fluoride, single crystal, crystal growing, EPR spectrometry

ABSTRACT: The EPR spectra of  $\text{CaF}_2:\text{Sm}$ ,  $\text{SrF}_2:\text{Sm}$ , and  $\text{BaF}_2:\text{Sm}$  crystals were investigated at 4.2 °K with an EPR spectrometer operating in the 3 and 10 cm wavelength regions. The crystals were grown under a variety of conditions, and both colorless crystals and crystals showing the characteristic tint due to the presence of  $\text{Sm}^{2+}$  ions were obtained. The only tetragonal  $\text{Sm}^{3+}$  centers observed in  $\text{CaF}_2:\text{Sm}$  were those with  $g_{\parallel} = 0 \pm 0.6$  and  $g_{\perp} = 0.823 \pm 0.003$ . The tetragonal  $\text{Sm}^{3+}$  centers reported by M.J.Weber and R.W.Bierig (Phys.Rev., 134, No. 6A, 1492, 1964) and W. Lowe (Phys. Rev., 134, No. 6A, 1479, 1964) were not confirmed. In  $\text{SrF}_2:\text{Sm}$  there were observed tetragonal  $\text{Sm}^{3+}$  centers with  $g_{\parallel} = 0 \pm 0.06$  and  $g_{\perp} = 0.829 \pm 0.002$ , and in the best samples it was possible to resolve the hyperfine structure due to the Sm isotopes. No resonances that could be ascribed to  $\text{Sm}^{3+}$  were observed in  $\text{BaF}_2:\text{Sm}$ , although many crystals grown under a wide variety of conditions were examined and resonances with g-factors as low as 0.2 or 0.3 would have

Card 1/2

L 01820-67 EWT(m)/T/EWP(t)/ETI IJP(c) JD/JW/JG

ACC NR: AP6030965 SOURCE CODE: UR/0181/66/008/009/2664/2667

AUTHOR: Antipin, A. A.; Kurkin, I. N.; Livanova, L. D.; Potvorova, L. Z.; Shekun, L. Ya. <sup>35</sup> B

ORG: Kazan State University im. V. I. Ul'yanov-Lenin (Kazanskiy gosudarstvennyy universitet)

TITLE: Investigation of paramagnetic centers of Er<sup>3+</sup> in BaF<sub>2</sub> and SrF<sub>2</sub> single crystals

SOURCE: Fizika tverdogo tela, v. 8, no. 9, 1966, 2664-2667

TOPIC TAGS: single crystal, impurity center, paramagnetic center, erbium, barium fluoride, strontium fluoride

ABSTRACT: The authors investigated SrF<sub>2</sub> and BaF<sub>2</sub> single crystals with a Er<sup>3+</sup> impurity. More trigonal and less cubic Er<sup>3+</sup> centers were detected in both single crystals. The dependence of the relative concentration of cubic and trigonal centers on the total concentration of Er<sup>3+</sup> was traced for the BaF<sub>2</sub>:Er sample. Orig. art. has: 1 formula and 2 tables. [Based on authors' abstract] [NT]

SUB CODE: 20/ SUBM DATE: 31Jan66/ ORIG REF: 003/ OTH REF: 005/

Card 1/1 fv

POTWOROWSKA, Maria

Cyanoacetic acid hydrazide. Gruzlica 24 no.2:129-136 Pat 56.

1. Warszawa, ul. Plocka 26.  
(ACETIC ACID, deriv.  
cyanoacetic acid hydrazide, review.

POTWOROWSKA, Maria; SERAFIN, Roman; ZIELINSKI, Jan

Spontaneous valvular pneumotorax in a parturient. Pol. tyg.  
lek. 19 no.11:399-402 9 Mr '64.

1. Z Oddzialu Polozniczo-Ginekologicznego Instytutu Gruzdicy  
w Warszawie (kierownik: dr med. J. Ruszkowski).

CHWALIBOG, Barbara; CHODKOWSKA, Stefania; POTWOROWSKA, Maria; SERAFIN, Roman;  
SZYMCZYK, Elzbieta

Multiple aspergillomas in bronchiectasis in a female patient with  
pulmonary and bronchial tuberculosis. Gruzlica 29 no.11:961-965  
N '61.

1. Z Instytutu Gruzlicy Dyrektor: prof. dr med. W. Jaroszewicz Oddzial  
IX Kierownik: dr B. Chwalibog Zaklad Radiologii Kierownik: prof. dr  
med. K. Ossowska Zaklad Patologii Kierownik: prof. dr med. S. Chodkowska.

(TUBERCULOSIS PULMONARY compl)  
(BRONCHIECTASIS compl)  
(ASPERGILLOSIS compl)

CHWALIBOG, Barbara; POTWOROWSKA, Maria; ARASZKIEWICZ, Włodzimierz;  
SITKOWSKI, Waclaw

Pulmonary resection in the treatment of tuberculosis. Gruzica  
30 no.3:225-238 '62.

1. z Oddzialu IX Instytutu Gruzlicy Dyrektor: prof. dr med.  
W. Jaroszewicz.  
(PNEUMONECTOMY statist)

SERAFIN, Roman; TURSKI, Czeslaw; SITKOWSKI, Wacław; CHWALIBOG, Barbara; POTWOROWSKA, Maria

Post-resection broncho-pleural fistula. Gruzlica 30 no.8:  
717-723 '62.

1. Z Oddziału Chirurgicznego Instytutu Gruźlicy w Warszawie  
Kierownik: prof. dr med. L. Manteuffel Z Oddziału IX Instytutu Gruźlicy w Warszawie Kierownik: doc. dr med. J. Madey  
i z Sanatorium Przeciwgruzliczego w Rudce Dyrektor: dr med.  
Z. Śladkowski.

(PNEUMONECTOMY) (POSTOPERATIVE COMPLICATIONS)  
(BRONCHIAL FISTULA) (PLEURA) (FISTULA)  
(TUBERCULOSIS, PULMONARY)

POTYAGALOV, A.F.

Is there a need for warp-hangers in automatic weaving?  
Tekst.prom. 21 no.12:8-10 D '61. (MIRA 15:2)

1. Zamestitel' glavnogo inzh. Kamyshinskogo khlopcatobumazhnogo  
kombinata.

(Weaving)  
(Automatic control)

POTYAGAI OV, Afanasiy Fedorovich; KALINNIKOV, I.V., red.;  
AGADZHANOV, I.A., red.; MEV'SHENINA, V.A., red.

[Warp sizing] Shlikhtovanie osnov. Izd.2., dop. i perer.  
Moskva, Legkata Industriia, 1965. 363 p. (MIRA 18:3)

POTYAGAYEV, I.A., ekskavatorshchik

Adjusting wheel-type excavators for cutting trenches with sloping sides. Suggested by I.A.Potiagaiev. Rats.i izobr.predl.v stroi. no.16:75-76 '60. (MIRA 13:9)

1. Trest No.27 Mytishchistroy, Moskva, ul.Osipenko, d.80/2.  
(Excavating machinery)

S/123/61/000/02<sup>4</sup>/002/016  
A004/A101

AUTHORS: Potyagaylo, M.V., Minkov, M.A., Fedorov, Yu.G.

TITLE: New drill design for deep-hole drilling in heat-treated steels

PERIODICAL: Referativnyy zhurnal. Mashinostroyeniye, no. 24, 1961, 53, abstract  
24B329 (V sb. "Novoye v instrumental'n. proiz-vye", Leningrad, Leniz-  
dat, 1960, 27 - 38)

TEXT: The authors describe a drill for the high-speed annular drilling of deep holes 50 - 100 mm in diameter in heat-treated alloyed steels of a hardness of HB 300-320. The drill has a capacity of up to 6.0 m/hour. The drill consists of the body and T15K6 (T15K6) sintered-carbide inserts. To divide the chip over its width there are three edges at the cutting part of the insertion tool. The radial clearance of 10 mm is sufficient to remove the fine chips being washed out. The drill direction is ensured by three BK-8 (VK-8) sintered-carbide inserts. The authors present a drawing of the drill and a table of geometric parameters which showed the most steady results during the testing. They describe the equipment of the horizontal drilling machine especially modernized for this purpose, the oil tank for the high-pressure supply and removal of the cutting

Card 1/2

POTYAGALOV, A.F.

F.S.Igonin, foreman's assistant. Tekst.prom. 21 no.3:50-53  
Mr '61. (MIRA 14:3)

1. Zamestitel' glavnogo inzh. Kamyshinskogo khlopchatobumazhnogo  
kombinata.

(Textile machinery--Maintenance and repair)

POTYAGAYLO, D.B.

Type of joining of a strip. Dokl.AN SSSR 138 no.5:1025-1028 Je  
'61. (MIRA 14:6)

1. L'vovskiy gosudarstvennyy universitet im. Ivana Franko.  
Predstavлено академиком М.А.Лаврентьевым.  
(Transformations (Mathematics))

USSR/Mathematics - Boundary Values

1 Oct 52

POTYAGAYLO, D. B.

"Set of Boundary Values of Meromorphic Functions," D. B. Potyagaylo

DAN

"Dokl Ak Nauk SSSR", Vol 86, No 4, pp 661-3

The structure of the set of boundary values of functions meromorphic in the circle  $|z|<1$  is studied by the method of Riemann, in which an investigation of boundary properties of meromorphic functions ~~is~~ conducted geometrically by means of the familiar theorem on the conformal reflection of regions and corresponding Riemannian surfaces. Submitted by academik M. A. Lavrent'yev 4 Aug 1952.

771

POTYAGAYLO, D.B. (L'vov)

One class of Riemann surfaces. Mat. sbor. 56 no.4:393-402  
Ap '62. (MIRA 15:7)  
(Riemann surfaces)

POTY GAYLO, D.B.

Problem of the type of a simply connected Riemannian surface.  
Sib. mat. zhur. 2 no.6:895-903 N-D '61. (MIRA 15:7)  
(Riemann surfaces)

POTYAGAYLO, D.B.

Condition of hyperbolicity for a class of Riemann surfaces. Укр.  
mat. zhur. 5 no. 4:459-463 '53. (MLRA 6:12)  
(Riemann surfaces)

POTYAGAYLO, D. B.

Problem of joining two semicircles. Dokl. AN SSSR 141 no.1:32-35  
N '61. (MIRA 14:11)

1. Predstavleno akademikom M. A. Lavrent'yevym.  
(Topology)

POTYAGAYLO, M.V., dots. kand. tekhn. nauk.

Analytical interdependences and nomograms used for determining the pressure on sliding keys in designing multiple-cutter tools for drilling and boring deep holes. Trudy LVMI no. 6:349-372 '57.  
(Drilling and boring machinery) (MIRA 11:5)

PETYAGAYLO, YU. V.

PHASE I BOOK EXPLOITATION

SOV/4672

Ispol'zovaniye rezervov mashinostroitel'nogo proizvodstva; iz opyta peredovykh zavodov (Utilization of Reserves in the Machine Building Industry; Practices of Leading Plants) [Leningrad] Lenizdat, 1959. 258 p. 3,000 copies printed.

General Ed.: A.M. Kucher, Candidate of Technical Sciences; Ed.: M.S. Chervova.  
Tech. Ed.: I.M. Tikhonova.

PURPOSE: This collection of articles is intended for workmen and technical personnel of the machine-building industry.

COVERAGE: The book examines principal trends in the utilization of unused production capacity of machine building plants and indicates ways to realize these reserves. On the basis of examples drawn from the practice of the leading plants of the Lensovmarkhoz, the authors show how to utilize this unused capacity by applying the following measures: improvement of the processability of constructions; bringing the shapes and sizes of blanks closer to the shapes and sizes of finished parts; replacement of mechanical machining with cold stamping; improvement of the efficiency of existing technological processes and introduction of new ones; and a comprehensive mechanization and automation of the equipment. The problem of utilizing unused capacity in the construction of heavy machinery is dealt with separately. No personalities are mentioned. There are no references.

Card 1/3

KOLOSOVA, A.Ya.; POTYAGAYLO, Z.M.

Refining and pentose hydrolysis of corncobs. Gidroliz.i  
lesokhim.prom. 13 no.6:8-9 '60. (MIRA 13:9)  
(Corn products) (Pentose) (Hydrolysis)

POTYAGALLO, Z.-M.

POTYAGALLO, Z.-M. MT

Hydrolysis of pentosans from cotton hulls, sunflower hulls, corn husks, and beech sawdust. A. P. Zafoschikov, Z. M. Potyagallo, M. G. Semenko, and O. F. Surovova. *Gidroliz i Lakatka. Prom.*, 8, No. 4, 9-11 (1975). - Cotton hulls (I), sunflower hulls (II), corn husks (III), and beech sawdust (IV) were boiled in 0.3% H<sub>2</sub>SO<sub>4</sub> soln. for 30 min. (the ratio of the material to the soln. was 1:10), washed, dried, and hydrolyzed by boiling in 0.5 and 2.0% H<sub>2</sub>SO<sub>4</sub> soln. for 1 hr at atm. pressure. I, II, III, and IV, resp., contained 26.3, 24.1, 33.6, and 24.8% of easily hydrolyzable polysaccharides, of which 26.2, 30.5, 35.0, and 29.2% were pentosans; 39.2, 41.6, 19.9, and 45.8% of difficultly hydrolyzable polysaccharides; 5.13, 6.95, 5.68, and 4.80% of uronic acids; 3.89, 2.69, 2.49, and 0.67% of proteins. II and IV contained about 20% of pentosans that did not hydrolyze readily. In III some hexoses dissolved together with pentosans. The yields of fermentable sugars were with 0.3% H<sub>2</sub>SO<sub>4</sub> 3.21, 1.25, 4.10, and 1.33%; with 2.0% H<sub>2</sub>SO<sub>4</sub>, 13.55, 7.00, 18.59, and 7.44% based on pentosans; 0.5% H<sub>2</sub>SO<sub>4</sub> gave 25.4, 09.2, 15.2, and 21.2%; and 2.0% II<sub>2</sub>SO<sub>4</sub>, 12.5, 10.8, 10.2, and 7.4% of uronic acids. Pentosans in III and I hydrolyzed rapidly, but the reaction was slower with IV and II. The relative content of uronic acids in the hydrolysates of II, after calculating the max. yield of 22-24%, has remained the same, but more volatile acids were formed on treatment with 2% H<sub>2</sub>SO<sub>4</sub>. It has been assumed that these acids form esters with polyuronides. The time of reaction and the concn. of the acid are the main factors influencing the rate and degree of hydrolysis. The yield was highest with III and the lowest with II in regard to both time and strength of the acid.

T. Juricic

(3)

All Union Sci. Res. Inst Hydrolyz + Sulphite Alkalal Industry

POTYAGAYLO, Z.M.

✓ Diffusion phenomena in the hydrolysis of plant substances. A. P. Zakoshchikov, Z. M. Potyagaylo, and O. F. Surovova. *Gidroliz i Lesukhim. Prom.*, 8, No. 8, 4-7 [1955].—Purified corn husks (I), cotton seed hulls (II), and sunflower seed hulls (III) were subjected to hydrolysis in 0.5 and 1.0% H<sub>2</sub>SO<sub>4</sub> for 15 and 60 minutes to determine the ratio of the amt. of liquor to the material being hydrolyzed (IV), and the rate of diffusion of sugars from the substance. The hydrolyzed material was filtered in a Buchner funnel. This operation was followed by pressing the filtered material at 250–300 atm., and then boiling twice in distd. water for 30 minutes, and the amt. of sugars detd. After 15 minutes hydrolysis II had 2.79% sugar retained by the material, 0.97% was in the pressed out liquor, and 0.70% in the filtered hydrolysate. The amt. of sugar in the hydrolysate rose to 0.96% and in the pressed out liquor to 1.24% after the addnl. 45 minutes boiling, but it was lowered in the pressed material to 1.75%. The rate of hydrolysis was I > II > III. The rate of diffusion has been considered as the determining factor in the removal of sugars, other factors are temp., acid concn., and time. IV could be regulated by making proper changes in acid concn. and time of reaction.  
T. Jurecic

(2)

KOLOSOVA, A.Ya.; POTYAGAYLO, Z.M.

Chemical composition of sunflower seed husks of different varieties. Gidroliz. i lesokhim. prom. 10 no.2:12-13 '57.

(MLRA 10:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti.  
(Sunflower seeds)

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pram. 18 no.3:4-8 Mr '58. (MDA 11:3)  
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POTYAGALOV, A.F., inzh.

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[Sizing of warps] Shlikhtovanie osnov. Moskva, Gos.suchno-tekhn. izd-vo lit-ry po legkoi promyshl., 1959. 325 p. (MIRA 13:3)  
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POTYAKINA, N.N., kand. med. nauk

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and parodontosis. Stomatologija 42 no.4:86-87 Jl-4g '63

(MIRA 17:4)

1. Iz kafedry propedevtiki vnutrennikh bolezney (zav. - prof.  
N.A. Al'bov [deceased]) Moskovskogo meditsinskogo stomatolo-  
gicheskogo instituta i 2-y klinicheskoy infektsionnoy bol'-  
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1. Iz kafedry propedevtiki vnutrennikh bolezney (zav. - prof. N.A. Al'bov [deceased]) Moskovskogo meditsinskogo stomatologicheskogo instituta i 2-y Klinicheskoy infektsionnoy bol'nitsy (glavnnyy vrach - A.M.Pyl'tsova), Moskva.

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N.A.Al'bov) i 2-klinicheskoy infektsionnoy bol'nitsy (glavnyy  
vrach A.M. Pyl'tsova) Moskovskogo meditsinskogo stomatologi-  
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1. Arkhangel'skiy lesotekhnicheskiy institut im. V.V. Kuybysheva.  
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